



Previous Year Question Paper
of

KERALA P.S.C EXAMS

BOTANY H.S.T. 2018

(Higher Secondary Botany Teacher Recruitment)

Question Code: 050/2018

Date of Test: 17/04/2018

(Original Question Paper with Answer Key)

KERALA PUBLIC SERVICE COMMISSION



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Question Booklet
Alpha Code

C

Question Booklet
Serial Number

916734

Total Number of Questions : 100

Time : 75 Minutes

Maximum Marks : 100

INSTRUCTIONS TO CANDIDATES

1. The Question Paper will be given in the form of a Question Booklet. There will be four versions of Question Booklets with Question Booklet Alpha Code viz. **A, B, C & D**.
2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the Question Booklet.
3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
4. If you get a Question Booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.
5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your Question Booklet is un-numbered, please get it replaced by new Question Booklet with same alpha code.
6. The Question Booklet will be sealed at the middle of the right margin. Candidate should not open the Question Booklet, until the indication is given to start answering.
7. Immediately after the commencement of the examination, the candidate should check that the Question Booklet supplied to him/her contains all the 100 questions in serial order. The Question Booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
8. A blank sheet of paper is attached to the Question Booklet. This may be used for rough work.
9. **Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.**
10. Each question is provided with four choices **(A), (B), (C)** and **(D)** having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball Point Pen in the OMR Answer Sheet.
11. **Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.**
12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

SEAL

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28. Of the following which a killing and fixing fluid
A) FAA B) DPX C) PDA D) Xylen **Ans. A**
29. FAA among the following which is the stain obtained from an organism
A) Fast green B) Sudan Red C) Carmine D) Safranin O **Ans. C**
30. The mounting media 'Canada balsam' is obtained from the plant
A) *Pinus roxburghii* B) *Abies balsamea* **Ans. B**
C) *Cedrus deodara* D) *Larix sibirica*
31. Monosporic 8 nucleated female gametophyte is found in
A) Adoxa B) Polygonum **Ans. B**
C) Onion D) Fritliaria
32. "Genera Plantarum" was published by
A) Theophrastus B) C. Linnaeus **Ans. D**
C) Jerome Bock D) Bentham and Hooker
33. The weak region in the exine of a pollen grain is known as
A) Stomium B) Slit C) Colpae D) Sporeoderm **Ans. C**
34. Pod is a characteristic fruit of the family
A) Malvaceae B) Commelinaceae **Ans. D**
C) Cucurbitaceae D) Leguminosae
35. Tricarpellary Syncarpous ovary is the characteristic feature of the family
A) Papilionaceae B) Euphorbiaceae **Ans. B**
C) Poaceae D) Asteraceae
36. Among the following which plant belong to family Myrtaceae
A) *Syzygium jambos* B) *Leucas biflora* **Ans. A**
C) *Mitragyna parvifolia* D) *Tridax procumbens*

A

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37. The characteristic fruit of Poaceae
A) Pod B) Berry C) Nut D) Caryopsis **Ans. D**
38. Among the following which is not a oil yielding plant
A) *Brassica campestris* B) *Arachis hypogeal*
C) *Corchorus capsularis* D) *Linum usitatissimun* **Ans. C**
39. What is the botanical name of Mung ?
A) *Phaseolus radiates* B) *Cicer arietinum*
C) *Pisum Sativum* D) *Cajanus Cajan* **Ans. A**
40. Use and Disuse theory was
A) Charles Darwin B) Francesco Redi
C) Jean-Baptiste Lamark D) Greoger Mendel **Ans. C**
41. Phylloclade is the modification of
A) Root B) Stem C) Leaf D) Flower **Ans. B**
42. The pioneer community in a Xeroscere
A) Phytoplankton B) Curstose lichen
C) Peat Moss D) Floating hydrophytes **Ans. B**
43. Vital index of a population is the ratio of
A) Birth \times Death \times 100 B) Birth – Death \times 100
C) Birth \div Death \times 100 D) Birth + Death \times 100 **Ans. C**
44. Of the following which is not a word to describe different growth forms of a community
A) Phanerophytes B) Saprophytes
C) Therophytes D) Chamaeophytes **Ans. B**
45. Among the following which is a positive interaction between two population
A) Competition B) Antibiosis
C) Commensalism D) Predation **Ans. C**

A

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55. In which stage of prophase I of meiotic cell division, terminalisation of Chiasmata occur ?
A) Leptotene B) Pachytene C) Diakinesis D) Diplotene
Ans. C
56. Who first discovered the Nucleus in plant cell ?
A) W. Flemming B) Barbara McClintock
C) Robert Brown D) Strasburger
Ans. C
57. Replication of DNA is
A) Conservative B) Semi-conservative
C) Non-conservative D) None of the above
Ans. B
58. Which among the following plasmid vectors used for cloning ?
A) pBR 322 B) pUC 19 C) Ti D) All of the above
Ans. D
59. The location of respiratory enzymes in plant cell is
A) Cristae B) Mitochondrial matrix
C) Perimitochondrial space D) Cytoplasm
Ans. A
60. Which of the following helps in ascent of sap ?
A) Transpiration B) Root pressure
C) Both A) and B) D) None of the above
Ans. D
61. Who invented Mass Spectrometer ?
A) Goldstein B) J. J. Thompson
C) Nikola Tesla D) Aston
Ans. B
62. Among the following which is a oligosaccharide
A) Glucose B) Glycogen
C) Lactose D) Galactose
Ans. C
63. The enzyme catalyses the breakdown of carbohydrate is
A) Protease B) Amylase
C) Lipase D) Gelatinase
Ans. B



71. Which among the following is not true in the case of creativity ?
A) Creativity is universal
B) Creativity carries ego involvement
C) Sociability and creativity are positively corrected
D) Creativity has a wide scope **Ans. C**
72. Which of the following is the highest level in attitude formation ?
A) Characterisation B) Precision C) Imitation D) Organisation **Ans. A**
73. The test which predicts the future performance of a student in a particular area is known as
A) Diagnostic test B) Achievement test
C) Prognostic test D) None of the above **Ans. C**
74. Maximum involvement of students in learning is possible through
A) Lecture method B) Lecture demonstration method
C) Biographical method D) Project method **Ans. D**
75. Field trip and excursions can be included in which category of teaching aids ?
A) 3 dimensional aids B) Activity aids
C) Graphic aids D) Projected aids **Ans. B**
76. By minimizing the Type I error, the probability of making a Type II error is
A) Decreased B) Increased C) Unaffected D) Cut in half **Ans. B**
77. The introduction of a research report proceeds
A) From general to specific
B) From specific to general
C) From general to specific and back to general again
D) From general to the results of the research **Ans. A**
78. Content validity is not significant in the case of
A) Achievement test B) Intelligence test
C) Both A) and (B) D) None of the above **Ans. B**
79. Which among the following is a non probability sampling technique ?
A) Stratified sampling B) Multistage sampling
C) Systematic sampling D) Purposive sampling **Ans. D**
80. Which of the following is not an example of active deception ?
A) Making false promises to participants
B) Misrepresenting true purposes of research
C) Making concealed observations of participants
D) Pseudoparticipants **Ans. C**

A



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87. Which of the following statement is correct regarding the 25th Constitutional Amendment Act of 1971 ?
- A) Gave superiority to Article 38 over right to equality and made the provision that it could not be challenged in any court under Article 32
 - B) Gave power to Parliament to amend any part of the Constitution including Fundamental Rights
 - C) Article 363 A was inserted and abolished Privy Purse paid to the former rulers of the Princely states
 - D) Fundamental Rights were made subordinate to directive principles of State Policy as given under Article 39
- Ans. D**
88. Read the following statements regarding the Union Public Service Commission, bring out the incorrect statement.
- A) It is inserted through the 15th Amendment Act of 1963
 - B) The Central Vigilance Commission has a decisive role in the disciplinary matters of the Union Public Service Commission
 - C) It is concerned with the classification of services and disciplinary matters of the personnel
 - D) The Chairman or the members of the Union Public Service Commission is not eligible for reappointment
- Ans. C**
89. The Verma Committee of 1999 was appointed in relation with
- A) Identification of legal provision for the implementation of some fundamental duties
 - B) The review of Governor's role in the State Administration
 - C) Human Rights Violations against women and children
 - D) Implementation of Right to Education
- Ans. A**
90. Which of the followings are correct regarding the Finance Commission of India ?
- i) It is a quasi-judicial body.
 - ii) It submits its report to the Parliament.
 - iii) The members of the Finance Commission are eligible for reappointment.
 - iv) According to Article 148 of the Constitution, comptroller and Auditor General of India is an ex-officio member of the Finance Commission
- A) i) and ii) are correct
 - B) ii) and iii) are correct
 - C) i) and iii) are correct
 - D) i) and iv) are correct
- Ans. C**

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91. The Biography of O. Chandu Menon was first published in
A) Bhashaposhini B) Vivekodayam
C) Mithavadi D) Malayalee **Ans. C**
92. The Kallumala agitation took place in the year
A) 1912 B) 1913 C) 1914 D) 1915 **Ans. D**
93. Who among the following founded the newspaper 'Desabhimani' ?
A) C. Kesavan B) C. V. Kunjuraman
C) T. K. Madhavan D) Moorkoth Kumaran **Ans. C**
94. Who wrote the book 'Cheruma Boy' ?
A) Pampadi John Joseph B) Poikayil Yohannan
C) Palakkunnath Abraham Malpan D) P. K. Chathan Master **Ans. A**
95. Who was the founder of 'Sree Narayana Sevika Samaj' ?
A) C. Krishnan B) Sahodaran Ayyappan
C) Dr. Palpu D) K. P. Vellon **Ans. B**
96. Which city is declared India's First world Heritage city by the UNESCO ?
A) Amritsar B) Ahmedabad
C) Hyderabad D) Mysore **Ans. B**
97. Which International Organisation turns 50 in 2017 ?
A) NATO B) SEATO
C) ASEAN D) SAARC **Ans. C**
98. The Murlen National Park is located in
A) Karnataka B) Mizoram C) Tripura D) Sikkim **Ans. B**
99. Which State in India has launched India's first electric bus ?
A) Himachal Pradesh B) Punjab
C) West Bengal D) Rajasthan **Ans. A**
100. National Rural Development Institute is situated at
A) Hyderabad B) Mumbai
C) Pune D) Chennai **Ans. A**

A

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